

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480904

Luminaire Tested: **IFLD-S-SA6D-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480904
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

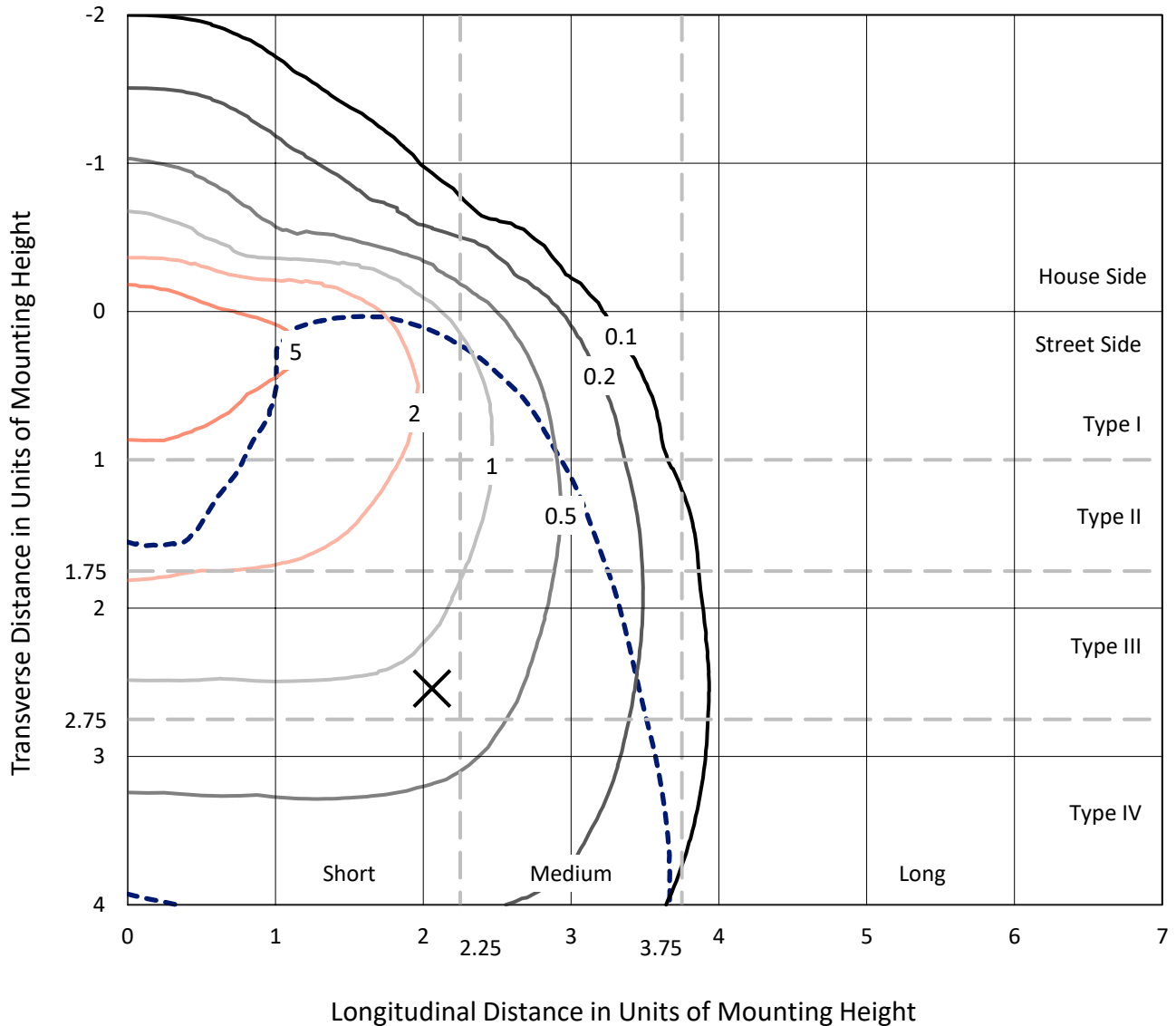
Lumens per Lamp: N/A
Luminaire Lumens: 44225.8 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

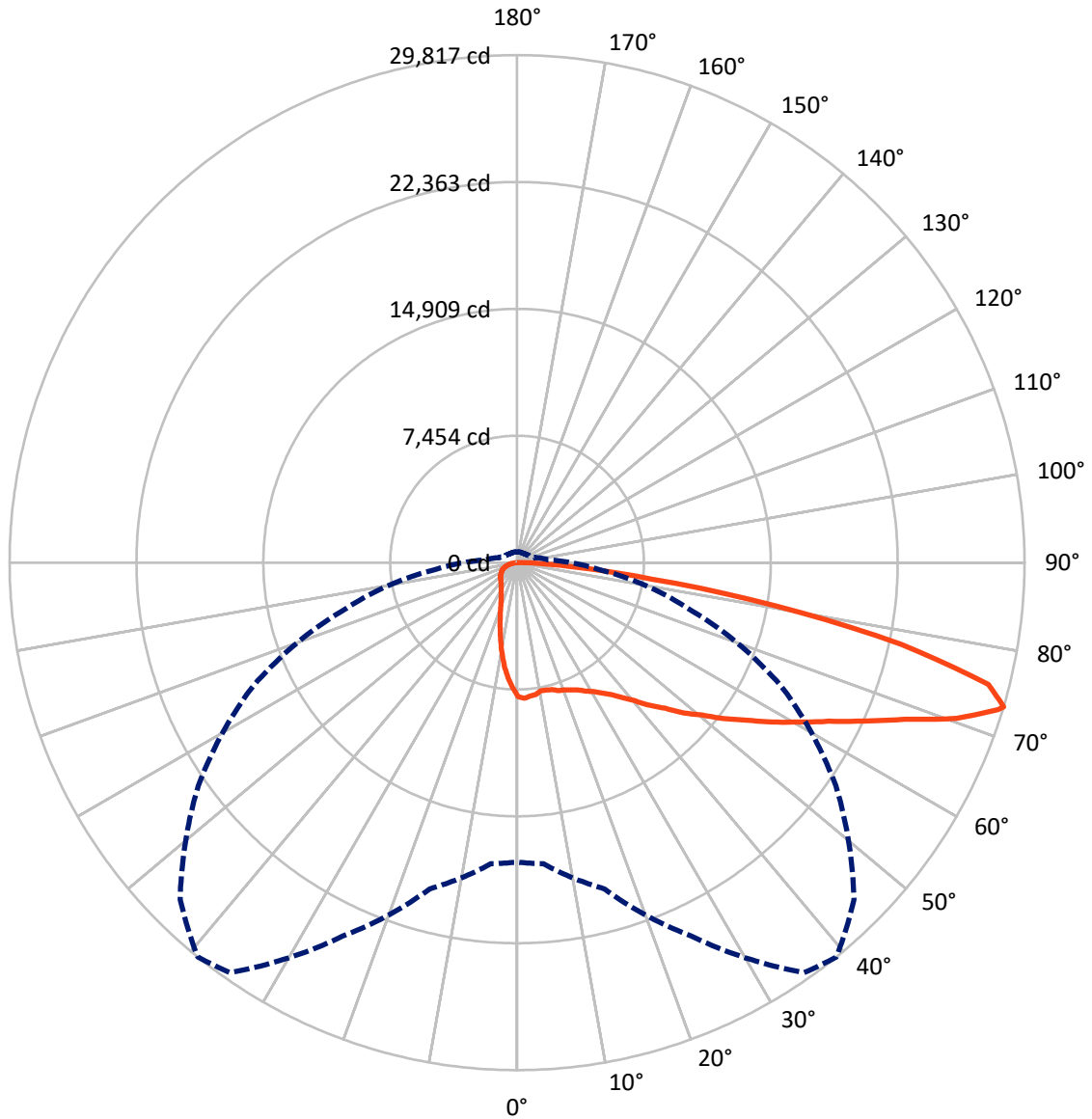
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6216.9	0.0	6216.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	38008.9	0.0	38008.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	44225.8	0.0	44225.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.4	1.5
10°-20°	1737.3	3.9
20°-30°	2654.8	6.0
30°-40°	3870.7	8.8
40°-50°	5849.1	13.2
50°-60°	8469.8	19.2
60°-70°	10761.2	24.3
70°-80°	8723.6	19.7
80°-90°	1476.0	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	44225.8	100.0
0°-180°	44225.8	100.0

Coefficient of Utilization



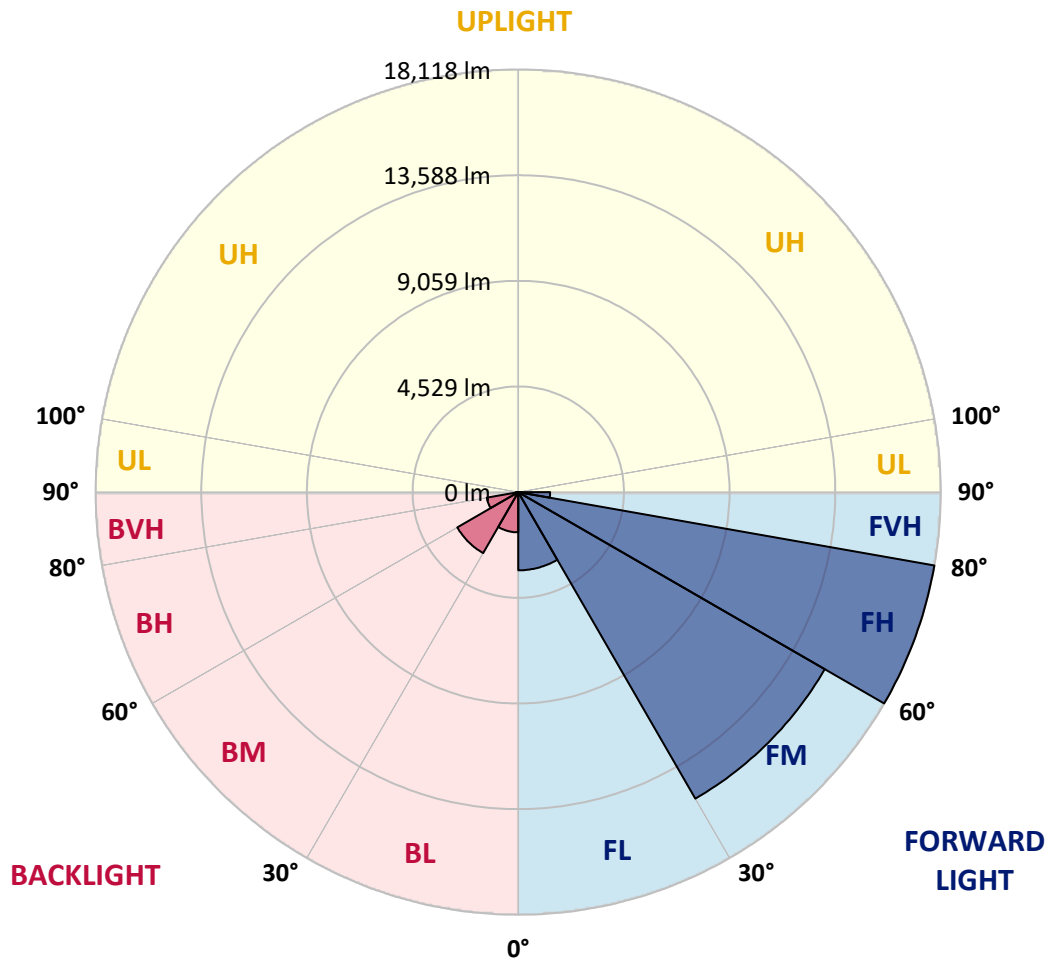
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3351.3	7.6			
FM (30°-60°)	15172.3	34.3			
FH (60°-80°)	18117.6	41.0			G5
FVH (80°-90°)	1367.7	3.1			G5
BL (0°-30°)	1724.1	3.9	B3/2500		
BM (30°-60°)	3017.2	6.8	B3/5000		
BH (60°-80°)	1367.3	3.1	B3/2500		G3/2500
BVH (80°-90°)	108.3	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5
2.5°	8060.5	7976.4	7991.2	7961.5	7991.2	7981.3	7966.5	7892.3	7966.5	7892.3	7872.5
5°	7951.6	7951.6	8001.1	7926.9	7936.8	7887.3	7936.8	7882.4	7832.9	7709.2	7674.5
7.5°	7917.0	7912.0	7917.0	7813.1	7862.6	7832.9	7783.4	7724.0	7625.1	7545.9	7432.1
10°	7679.5	7729.0	7674.5	7704.2	7743.8	7654.7	7649.8	7635.0	7590.4	7486.5	7417.2
12.5°	7550.8	7635.0	7664.6	7639.9	7674.5	7684.4	7654.7	7635.0	7580.5	7511.3	7313.3
15°	7605.3	7506.3	7590.4	7753.7	7719.1	7743.8	7748.8	7729.0	7704.2	7575.6	7446.9
17.5°	7620.1	7560.7	7738.9	7773.5	7818.0	7907.1	7847.7	7842.8	7748.8	7659.7	7471.7
20°	7654.7	7630.0	7773.5	7956.6	7961.5	7976.4	8006.1	7931.8	7882.4	7729.0	7442.0
22.5°	7783.4	7867.5	8001.1	8080.3	8124.8	8134.7	8134.7	7986.3	7931.8	7808.1	7580.5
25°	8169.4	8080.3	8268.3	8362.3	8298.0	8283.2	8248.5	8114.9	8055.5	7946.7	7644.9
27.5°	8451.4	8446.4	8555.3	8684.0	8510.8	8545.4	8421.7	8382.1	8248.5	8189.1	7758.7
30°	8837.3	8946.2	8941.3	8980.8	8753.2	8792.8	8634.5	8560.3	8486.0	8520.7	8095.1
32.5°	9332.2	9292.6	9356.9	9327.2	9099.6	9134.2	8946.2	8832.4	8857.1	8961.1	8555.3
35°	9648.8	9609.3	9634.0	9634.0	9564.7	9525.1	9446.0	9297.5	9416.3	9609.3	9069.9
37.5°	9990.3	10039.7	10183.2	10153.5	10064.5	10064.5	10054.6	9950.7	10104.1	10579.1	9891.3
40°	10292.1	10425.7	10514.8	10574.1	10678.1	10678.1	10762.2	10702.8	10979.9	11741.9	10895.8
42.5°	10608.8	10613.7	11098.6	11143.2	11375.7	11474.7	11539.0	11588.5	12108.1	12959.1	11969.5
45°	11014.5	11039.3	11464.8	11806.2	12167.4	12202.1	12444.5	12607.8	13246.1	14290.2	13137.3
47.5°	11548.9	11519.2	11974.5	12518.8	12969.0	13206.5	13498.5	13676.6	14463.4	15735.0	14413.9
50°	12251.6	12162.5	12424.7	13280.8	13810.2	14072.5	14592.0	14888.9	15809.3	17115.6	15289.7
52.5°	13107.6	12959.1	13167.0	14102.2	14695.9	15225.4	15720.2	16051.7	17011.6	18184.4	15937.9
55°	14013.1	13706.3	13765.7	14973.0	15829.0	16328.8	17006.7	17353.1	18332.8	19144.3	16586.1
57.5°	14908.7	14715.7	14597.0	15809.3	17179.9	17659.9	18283.3	18733.6	19564.9	19995.4	17135.4
60°	15660.8	15611.3	15418.4	17105.7	18609.9	19020.6	19673.7	19950.8	20579.2	20782.1	17145.2
62.5°	16279.3	16111.1	16417.9	18149.7	20064.6	20529.8	21247.2	21272.0	21717.3	21272.0	16640.5
65°	16764.2	16774.1	17264.0	19411.5	21747.0	22434.8	23013.7	22949.4	22662.4	20980.0	15448.0
67.5°	17204.6	17392.7	18110.1	20797.0	23909.3	24557.5	25200.8	24349.7	22919.7	19614.4	13117.5
70°	17551.0	17739.0	19253.1	22484.3	26457.6	27407.7	27551.2	24903.9	21737.1	16615.8	9896.2
72.5°	17511.4	17852.8	19901.4	23830.2	28718.9	29540.3	28382.4	23345.2	18110.1	11583.6	5774.5
73°	17595.5	17763.8	19846.9	24206.2	29406.7	29817.4	27996.5	22855.4	17080.9	10391.1	4883.8
75°	15972.5	16541.6	18862.2	23592.7	28669.4	28595.2	25779.7	19045.3	12142.7	5457.8	2365.2
77.5°	11816.1	12177.3	14864.2	19401.6	23533.3	23058.3	19446.1	12172.4	5764.6	2023.8	1276.6
80°	5774.5	6056.5	7877.4	11202.6	15388.7	15428.2	12068.5	6333.6	2469.1	1143.0	870.9
82.5°	2884.8	3053.0	3785.3	4923.4	7570.6	7931.8	6120.8	3602.2	1529.0	648.2	494.8
85°	1885.2	2004.0	2330.6	2409.7	3211.3	3389.5	2850.1	2810.5	994.6	351.3	400.8
87.5°	1251.9	1271.7	1430.0	1217.2	1286.5	1237.0	1375.6	1771.4	291.9	148.4	108.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5	7872.5
2.5°	7847.7	7778.5	7704.2	7600.3	7526.1	7412.3	7308.4	7263.8	7253.9	7258.9	7209.4
5°	7644.9	7545.9	7397.4	7184.7	7061.0	6872.9	6714.6	6630.5	6541.4	6556.3	6516.7
7.5°	7362.8	7253.9	7026.3	6778.9	6472.1	6204.9	6056.5	5848.7	5729.9	5640.9	5690.3
10°	7273.7	7085.7	6744.3	6402.9	5927.9	5576.5	5235.1	4997.6	4834.3	4676.0	4745.3
12.5°	7229.2	7041.2	6566.2	6061.5	5447.9	4913.5	4433.5	4141.6	3909.0	3770.5	3824.9
15°	7189.6	6957.1	6397.9	5685.4	4997.6	4295.0	3755.6	3369.7	3147.0	3013.4	3028.3
17.5°	7244.1	6912.5	6150.5	5319.2	4502.8	3750.7	3152.0	2751.2	2523.5	2439.4	2419.6
20°	7189.6	6863.0	5908.1	4953.1	4008.0	3231.1	2657.1	2325.6	2167.3	2098.0	2083.2
22.5°	7209.4	6744.3	5655.7	4547.3	3547.8	2795.7	2325.6	2073.3	1949.6	1914.9	1924.8
25°	7303.4	6675.0	5403.4	4102.0	3092.6	2474.1	2112.8	1919.9	1830.8	1796.2	1806.1
27.5°	7372.7	6734.4	5175.7	3681.4	2706.6	2187.1	1934.7	1806.1	1746.7	1721.9	1717.0
30°	7545.9	6769.0	4953.1	3305.3	2389.9	1999.0	1811.0	1707.1	1667.5	1652.7	1647.7
32.5°	7803.2	6833.4	4695.8	2959.0	2157.4	1820.9	1712.1	1623.0	1613.1	1598.2	1603.2
35°	8223.8	7056.0	4408.8	2662.1	1934.7	1702.2	1608.1	1548.8	1548.8	1548.8	1563.6
37.5°	8827.5	7367.8	4151.5	2380.0	1791.2	1598.2	1519.1	1499.3	1489.4	1504.2	1514.1
40°	9604.3	7743.8	3943.7	2157.4	1667.5	1529.0	1459.7	1449.8	1444.9	1439.9	1449.8
42.5°	10455.4	8223.8	3765.5	1984.2	1578.5	1454.7	1405.3	1395.4	1375.6	1385.5	1400.3
45°	11301.5	8817.6	3607.2	1845.7	1519.1	1415.2	1345.9	1340.9	1331.0	1326.1	1350.8
47.5°	12241.7	9401.4	3557.7	1761.5	1474.5	1355.8	1306.3	1301.4	1271.7	1266.7	1286.5
50°	12974.0	9831.9	3612.1	1721.9	1410.2	1311.3	1276.6	1251.9	1227.1	1202.4	1202.4
52.5°	13478.7	10128.8	3651.7	1692.3	1375.6	1251.9	1207.3	1197.4	1172.7	1148.0	1138.1
55°	13933.9	10306.9	3661.6	1697.2	1340.9	1182.6	1152.9	1148.0	1133.1	1093.5	1083.6
57.5°	14087.3	10232.7	3463.7	1652.7	1321.1	1138.1	1098.5	1108.4	1088.6	1054.0	1049.0
60°	14072.5	9718.1	3013.4	1593.3	1276.6	1088.6	1039.1	1068.8	1068.8	1029.2	1024.3
62.5°	13216.4	8530.6	2464.2	1479.5	1227.1	1039.1	984.7	1029.2	1044.1	1019.3	1014.4
65°	11440.1	6947.2	2058.4	1365.7	1152.9	984.7	930.2	979.7	1004.5	994.6	989.6
67.5°	9465.8	5314.3	1712.1	1217.2	1058.9	910.5	865.9	900.6	915.4	920.4	925.3
70°	6689.9	3537.9	1430.0	1054.0	930.2	831.3	781.8	786.8	781.8	796.6	796.6
72.5°	3636.9	2038.6	1162.8	895.6	801.6	722.4	687.8	663.0	663.0	658.1	658.1
73°	3112.4	1830.8	1108.4	870.9	767.0	702.6	663.0	643.3	643.3	638.3	633.4
75°	1746.7	1340.9	950.0	747.2	663.0	613.6	583.9	554.2	549.2	549.2	549.2
77.5°	1148.0	1044.1	757.1	598.7	534.4	489.9	480.0	450.3	450.3	450.3	445.3
80°	861.0	821.4	583.9	455.2	410.7	376.1	366.2	346.4	341.4	321.6	326.6
82.5°	574.0	648.2	425.5	321.6	277.1	257.3	257.3	252.4	237.5	212.8	212.8
85°	455.2	529.4	306.8	197.9	163.3	138.5	143.5	138.5	133.6	108.9	103.9
87.5°	84.1	212.8	89.1	54.4	39.6	24.7	24.7	14.8	9.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)